

# SEQUENCE LISTING

<110> GILAD, Shlomit  
EINAT, Paz  
GROSMAN, Avital

<120> METHOD FOR ENRICHMENT OF NATURAL ANTISENSE MESSENGER  
RNA

<130> GILAD=2B

<140> NOT YET ASSIGNED

<141> 2001-04-12

<150> 09/680,420

<151> 2000-10-06

<160> 29

<170> PatentIn Ver. 2.1

<210> 1

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> n at position 40 represents g, a, c or t

<220>

<223> Description of Artificial Sequence:OLIGONUCOEOTIDE  
PRIMERS

<400> 1

ttctagaatt cagcggccgc tttttttttt ttttttttvn

40

<210> 2

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:OLIGONUCLEOTIDE  
PRIMERS

<400> 2

gatgggagtt gtgtgttttag tc

22

<210> 3  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:OLIGONUCLEOTIDE  
 PRIMERS

<400> 3  
 ggagagagaa gtgcagagtt cg 22

<210> 4  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:OLIGONUCLEOTIDE  
 PRIMERS

<400> 4  
 ttagtacaaa cttagggttc t 21

<210> 5  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:OLIGONUCLEOTIDE  
 PRIMERS

<400> 5  
 tcatggcaac tccagagcag 20

<210> 6  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:OLIGONUCLEOTIDE

# PRIMERS

<400> 6  
accacagtcc atgcatcac 20

<210> 7  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:OLIGONUCLEOTIDE  
PRIMERS

<400> 7  
tccaccaccc tgttgctgta 20

<210> 8  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:OLIGONUCLEOTIDE  
PRIMERS

<400> 8  
ggagttagtc cttgaccact ag 22

<210> 9  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:OLIGONUCLEOTIDE  
PRIMERS

<400> 9  
gcacttacac agttagtcacat gg 22

<210> 10  
<211> 188  
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
SEQUENCE

<400> 10

gggcggggccg cttttttttt tttttttttg gagttagtcc ttgaccacta gtttgatgcc 60  
atctccattt tgggtgacct gtttcaccag caggcctgtt actctccatg actaactgtg 120  
taagtgccta aaatggaata aattgctttt ctacataacc ccaaaaaaaaaa aaaaaaaaaa 180  
gcggccgc 188

<210> 11

<211> 169

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<400> 11

tttttttttt ttttttttgg agttagtcct tgaccactag tttgatgcc a tctccatttt 60  
gggtgacctg tttcaccagc aggctgttta ctctccatga ctaactgtgt aagtgtttaa 120  
aatggaataa attgcttttc tacataaccc caaaaaaaaaa aaaaaaaaaa 169

<210> 12

<211> 550

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<220>

<223> n at positions 114, 319, 340, 350, 369, 386, 455,  
371, 506, and 538 are unknown.

<400> 12

ttttcattgt cataattttt tattatgtat caaattgtct tcaatataag ttacaacttg 60  
attaaagttg atagacattt gtatctattt aaagacaaaa aaattctttt atgtncaata 120  
tcttgtctag agtctagcaa atatagtacc tttcattgca ggatttctgc ttaatataac 180  
aagcaaaanc aaacaactga aaaaatataa accaaaagcaa accaaacccc ccgctcaact 240  
acaaatgtca atattgaatg aagcattaaa agacaaacat aaagtaactt cagcttttat 300  
ctagcaatgc agaatgaatn ctaaaattag nggcaaaaaa ncaaacaaca aacaacaaac 360

aaaacaaaanc aaacaancaa aaaatcccac caatcttcat gggtaaaatt tctgtctcag 420  
 ggatgtaagc tgactctaga ccattngcgg ttcctgcgga tagcacagcc angatcatct 480  
 gaagatcatg ccaaatntca tgaccacggc aatgccgatg cccctgcgcc gatgatgngg 540  
 aatttattgg 550

<210> 13

<211> 491

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED

HUMAN

<400> 13

tttttttttt tttttttctt gctgcagcaa cgcgagtggg agcaccagga tctcgggctc 60  
 ggaacgagac tgcacggatt gttttaagaa aatggcagac aaaccagaca tgggggaaat 120  
 cgccagcttc gataaggcca agctgaagaa aacggagacg caggagaaga acaccctgcc 180  
 gaccaaagag accattgagc aggagaagcg gagtgaatt tcctaagatc ctggaggatt 240  
 tctaccccc atcctcttcg agaccccagt cgtgatgtgg aggaagagcc acctgcaaga 300  
 tggacacgag ccacaagctg cactgtgaac ctgggcactc cgtgccgatg ccaccggcct 360  
 gtgggtctct gaagggaccc ccccccaatc ggactgcaa attctccggt ttgccccggg 420  
 atattataga aaattatttg tatgaataat gaaaataaaa cacacctcgt ggcaaaaaaa 480  
 aaaaaaaaaa a 491

<210> 14

<211> 206

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED

HUMAN

<400> 14

tttttttttt ttttttttgg gagtggtagg atgaaacaat ttggagaaga tagaagtttg 60  
 aagtggaaaa ctggaagaca gaagtacggg aaggcgaaga aaagaataga gaagataggg 120  
 aaattagaag ataaaaacat acttttagaa gaaaaaagat aaatttaaac ctgaaaagta 180  
 ggaagcagaa aaaaaaaaaa aaaaaa 206

<210> 15

<211> 206

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<220>

<223> n at position 54 is unknown.

<400> 15

```
ttttctgtgg ggccatcact ttattaagggt gtcatctaga aggtggggccc cctgncaaac 60
cgcggggactg tgatcgggct ccagctactt caccaccccg ggccagcctg ctccaggggt 120
cccttcctgc tgagagcagg cgagaggcag tcaggctcat gaagcagcca ccgggtttgg 180
ctcactggaa ggaatcacac tggaaa 206
```

<210> 16

<211> 178

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<400> 16

```
tttttttttt ttttttttct gtgtccactg gagagottga gtcacactc aaagatcaga 60
ggacctacag agagggctct ttggtttgag gaccatggct tacctttcct gcctttgacc 120
catcacaccc catttcctcc tctttccctc tccccgctgc caaaaaaaaa aaaaaaaa 178
```

<210> 17

<211> 127

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<220>

<223> n at positions 98 and 112 are unknown.

<400> 17

```
gaattcgatg cgtattctgt ggcccgccat ctgcgcaggg tgggtgtatt ctgccattta 60
cacacgtcgt tctaattaaa aagcgaatna tactcaaaa aaaaaaaaaa angcgcccg 120
tgaattc 127
```

<210> 18

<211> 115  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<400> 18  
gaattcagcg gccgcttttt tttttttttt ttttcgaagt gtttaccoca gtgtttgaaa 60  
gggattccag atggtcaa at aaaaaaatg ttcctaaact tggatgatg aactc 115

<210> 19  
<211> 204  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<220>

<223> n at position 28 is unknown.

<400> 19  
gaattcaggg ccgttctggt tctctctntc tccccgccct ccctcaccac cagtggaaacc 60  
ttcatcgagt tccacaaacc tggatttttt atgtacaacc ctgaccgtgg ccgtttgcta 120  
tattcctttt tctatgaaat aatgtgaatg ataataaaac agctttgact tgaaaaaaaaa 180  
aaaaaaaaag cgccgctga attc 204

<210> 20  
<211> 109  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<400> 20  
gaattccctc ccctccttg tgccttcttt gtatataggc ttctcacggc gaccaataaa 60  
cagctcccag tttgtatgca aaaaaaaaaa aaaagcggcc gctgaattc 109

<210> 21  
<211> 191

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<400> 21

gaattcagcg gccgcttttt tttttttttt ttgggagaag tgtataaatt attatgttga 60  
caagcagaga aagaaaagtt aaataccaga taagcttttg atttttgtat tgtttgcac 120  
cccttgccct caataaataa agttcttttt tagttccaaa aaaaaaaaaa aaaaaagcgg 180  
ccgctgaatt c 191

<210> 22

<211> 106

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<400> 22

gaattcagcg gaaaaccttg agttctggat tgctgtgag gattacaaga agatcaagtc 60  
ccctgccaag atggctgaga aggcaaagca aatttatgaa gaattc 106

<210> 23

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<400> 23

gaattcaatg ggtaaataaa tgctgctttg gggaaaaaaaa aaaaaaaagc ggccgctgaa 60  
ttc 63

<210> 24

<211> 586

<212> DNA

<213> Artificial Sequence

<220>



<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<400> 24

tttttttttt tttttttggc ctgggaatga gaaaataact ttatttcatt gtgggggagcg 60  
ggccgatgtc cagcctcaga acttctggaa ctgcttcttg gtgccggcag ccttggtgac 120  
cttgagcacg ttgaagcgca ctgtcttgct cagaggccgg cactcgcca ctgtgacgat 180  
gtcaccgatc tggacgtccc tgaagcaggg ggacagggtg acagacatgt tcttggtggcg 240  
cttctcgaag cggttgtact tgcggatgta gtgcagatag tctcggcgga tgacaatggt 300  
cctctgcac ttcatcttgg tcaccacgcc agagaggatc cgccctcgaa tggacacatt 360  
accaagtga ggggcatttc ttgtcaatgt aggtgccctc aatagcctcc ttgggtgtct 420  
tgaagcccag accgatgttc ttgtagtacc gcgggagctt ctccttgcca gtttctccca 480  
gcaggaccct cttcttgttt tgaaagatgg tcggctgctt ttggtangca cgctcagtct 540  
gaatgtccgc catcttcccg ggcgcctgaa aaaaaaaaa aaaaaa 586

<210> 25

<211> 363

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<400> 25

tttttttttt ttttttttcc ggcggtgacg acctacgcac acgagaacat gcctctcgca 60  
aaggatctcc ttcatccctc tccagaagag gagaagagga aacacaagaa gaaacgcctg 120  
gtgcagagcc ccaattccta cttcatggat gtgaaatgcc caggatgcta taaaatcacc 180  
acggtcttta gccatgcaca aacggtagtt ttgtgtgttg gctgctccac tgtcctctgc 240  
cagcctacag gaggaaaagc aaggcttaca gaaggatgtt ccttcaggag gaagcagcac 300  
taaaagcact ctgagtcaag atgagtggga aaccatctca ataaacacat tttggataaa 360  
ccg 363

<210> 26

<211> 563

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<400> 26

tttttttttt tttttttctt cagcgaggcg gccgagctgg ttggtggcgg cggtcgtgcg 60  
gaogcaaaca tgcagatctt tgtgaagacc ctactggca aaaccatcac ccttgaggtc 120  
gagcccagtg acaccattga gaatgtcaaa gccaaaattc aagacaagga gggatatcca 180

cctgaccagc agcgtctgat atttgccggc aaacagctgg aggatggccg cactctctca 240  
gactacaaca tccagaaaga gtccaccctg cacctgggtg tgcgcctgcg aggtggcatt 300  
attgagcctt ctctccgcca gcttgcccag aaatacaact gcgacaagat gatctgccgc 360  
aagtgtatg ctgccttca cctcgtgct gtcaactgcc gcaagaagaa gtgtggtcac 420  
accaacaacc tgcgtcccaa gaagaaggtc aaataagggtg gttctttcct tgaagggcag 480  
cctcctgcc cagggcccggtg gccctggagc ctcaataaag tgtccctttc attgactgga 540  
gcagcaaaaa aaaaaaaaaa aaa 563

<210> 27

<211> 662

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<400> 27

tttttttttt ttttttttgg gactttcagc ccttttaatt aggtgctctg agaagaggtc 60  
agaatggcag gcaggggggtg gggaaggcgg tgcttcttga gcccactta gcaactggtc 120  
actcatcctc tggcagctgg atcttgctgg ggtcgaagca gttggattcc atgatgggaa 180  
ggccattggc ctctcggtat ttcacaagcc tctcagcttc gcggcgggac cactctttca 240  
tcccatccca cgctcttggg caccctgtgc acctgtagtc aggcagatag gccacaaagg 300  
tgotgccaag gaccangatg atggagacgc caaagaagaa gacaagtcgc atgttccaaa 360  
cgtccaaaaa cggggggccct gtcataacca atggggaatc cggggtcctc ccatacaagt 420  
tttgcgtctc ggggttctggg tcctcttgcc acggtgtggt cggttctggg ggccgctttc 480  
ccgccacagc ggacggggcg accacaatcc tggagaaact agattcccaa cgggacggcg 540  
gcggggccggg aaccctcgcg tcgccgctgc cgccaaaaga ccgngaacgc tcaaccaaac 600  
agccaaccgc aagacaaatg gtgctgaagg tncagggcg ggaaagaaaa aaaaaaaaaa 660  
aa 662

<210> 28

<211> 504

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR AMPLIFIED  
HUMAN

<400> 28

tttttttttt ttttttttgg cttgactcag gatttataaa ctggaacggt gaaggtgaca 60  
gcagtcggtt ggagcgagca tcccccaaa ttcacaatgt ggccgaggac tttgattgca 120  
cattgttggt tttttaatag tcattccaaa tatgagatgc gttgttacag gaagtccctt 180  
gccatectaa aagccacccc acttctctct aaggagaatg gccagtcct ctcccaagtc 240  
cacacagggg aggtgatagc attgctttcg tgtaaattat gtaatgcaaa atttttttta 300

tcttcgcctt aatacttttt tattttgttt tattttgaat gatgagcctt cgtgcccccc 360  
 ctccccctt ttttgtcccc caacttgaga tgtatgaagg cttttggtct ccctgggagt 420  
 gggaggaggc agccagggtt tacctgtaca ctgacttgag accagttgaa taaaagtga 480  
 cacctgaaaa aaaaaaaaaa aaaa 504

<210> 29

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic

<400> 29

tctagtcgac ggccagtga ttgtaatacg actcactata gggcgttttt tttttttttt 60  
 tttttt 66

TE00000401